

# WEST Search History

DATE: Tuesday, May 13, 2003

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result set

*DB=USPT; PLUR=YES; OP=ADJ*

L10	L2 near15 recharg\$	2	L10
L9	L2 and recharg\$	48	L9
L8	L2 near10 ( cradle)	0	L8
L7	L2 near10 (recharg\$ near5 cradle)	0	L7
L6	L5 and recharg\$	13	L6
L5	l4 or l3	82	L5
L4	4754268[uref]	77	L4
L3	L2.ti.	7	L3
L2	wireless near3 mouse	211	L2
L1	5870080.pn.	1	L1

END OF SEARCH HISTORY

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L10: Entry 1 of 2

File: USPT

Nov 5, 2002

DOCUMENT-IDENTIFIER: US 6476795 B1  
TITLE: Mouse recharging module

Drawing Description Text (5):

FIG. 4 is a perspective illustration of a module, which accepts and recharges a battery operated wireless mouse.

Detailed Description Text (10):

FIG. 5 is a perspective illustration of a portable computing system having a portable computer 10 with an accessory bay 26 in a base 28. A display 14 is attached to the base 28, preferably with a rotating hinge. The display allows a user to view information from the portable computer 10. The user can highlight or select information on the screen using a cursor 20. A wireless mouse 50 using wireless transceiver 52 to a wireless transceiver 16 in the portable computer 10 controls the cursor 20. A rechargeable battery preferably powers the wireless mouse 50. When the mouse battery need to be recharged, the user fits the wireless mouse 50 into a mouse bay 40 in a module 30. The module 30 makes contact with a battery charger within the portable computer 10 using module connector 32. Optionally, the module 30 has a reserve battery 36 and a reserve charger 34 which are used to recharge the battery in the wireless mouse 50 even if the module 30 is not fitted within portable computer 10. The reserve battery 36 is itself recharged when the module 30 is placed in accessory bay 26 of the portable computer 10.

Detailed Description Text (11):

FIG. 6 is a flowchart of one process by which the wireless mouse 50 is recharged. In step 70, the wireless mouse, if collapsible, is collapsed to fit within the mouse bay 40 of module 30. Then in step 72, the wireless mouse 50 is inserted into the mouse bay 40 of module 30. Next in step 74, the module 30, with the wireless mouse 50, is inserted into the accessory bay 26 of the portable computer 10. Then in step 76 the battery charger 22 of the portable computer recharges the mouse battery 60. Optionally, if the reserve battery 36 and the reserve charger 34 are included in the module 30, then just inserting the wireless mouse 50 into the mouse bay 40, as in step 72, will begin to recharge the mouse battery 60.

## CLAIMS:

1. A portable computer system, comprising: a base housing having an accessory bay, a first wireless transceiver, and a battery charger coupled to said accessory bay; a screen attached to said base, said screen capable of displaying a cursor in response to data from said

first wireless transceiver; a module capable of insertion into and removal from said accessory bay, said module having a mouse bay and a connector for coupling to said battery charger; a mouse having a battery and a second wireless transceiver for contact with said first wireless transceiver for positioning said cursor on said screen, said battery capable of recharging when said mouse is placed in said mouse bay of said module.

7. A portable computer system, comprising: the module of claim 6; a base housing having an accessory bay capable of accepting said module, a first wireless transceiver and a battery charger coupled to said accessory bay; a screen attached to said base, said screen capable of displaying a cursor in response to data from said first wireless transceiver; a mouse having a battery and a second wireless transceiver for contact with said first wireless transceiver for positioning said cursor on said screen, said battery recharging when said mouse is placed in said mouse bay and said module is fitted in said accessory bay.

9. A portable computer system, comprising: a module for insertion into and removal from a portable computer accessory bay, comprising: a connector for coupling with a battery charger in said portable computer, and a mouse bay coupled to said connector and said mouse bay capable of accepting a mouse having a battery wherein said battery of said mouse is recharged when said mouse is in said mouse bay; a base housing having an accessory bay capable of accepting said module, a first wireless transceiver and a battery coupled to said accessory bay; a screen attached to said base, said screen capable of displaying a cursor in response to data from said first wireless transceiver; a mouse having a battery and a second wireless transceiver for contact with said first wireless transceiver for positioning said cursor on said screen, said battery recharging when said mouse is placed in said mouse bay and said module is fitted in said accessory bay; a reserve battery coupled to said connector; and a reserve battery charger having an input coupled to said reserve battery and an output coupled to said mouse bay wherein said reserve battery is recharged from said battery charger in said base and said battery in said mouse is recharged from said reserve battery charger.

10. A portable computer system, comprising: a base housing having an accessory bay, a first wireless transceiver and a battery charger coupled to said accessory bay; a screen attached to said base, said screen capable of displaying a cursor in response to data from said first wireless transceiver; a module capable of insertion into and removal from said accessory bay, said module having a mouse bay and a connector for coupling to said battery charger, a reserve battery coupled to said connector, a reserve battery charger having an input coupled to said reserve battery and an output coupled to said mouse bay wherein said reserve battery is recharged from said battery charger in said base and said battery in said mouse is recharged from said reserve battery charger; and a mouse having a battery and a second wireless transceiver for contact with said first wireless transceiver for positioning said cursor on said screen, said battery recharging when said mouse is placed in said mouse bay of said module.

11. A method of recharging a battery in a wireless mouse comprising the step of: inserting the mouse into a mouse bay of a module that is capable of insertion into an accessory bay of a portable computer, the mouse bay coupled to a battery charger.

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L6: Entry 2 of 13

File: USPT

Oct 16, 2001

DOCUMENT-IDENTIFIER: US 6304250 B1

TITLE: Wire/wireless keyboard with pointing device attachable thereto, computer system for use with the same, and related method

Detailed Description Text (10):

When the wire/wireless keyboard 200 operates with wireless communication, or when it communicates with the computer 100 in wireless form, the key function indicator 270 on the keyboard 200 is turned off and the key function indicator 120 on the computer 100 is turned on. Thus, during wireless communication, it is possible to reduce power consumption of a battery (not shown in FIGS. 3 and 6) mounted in the keyboard 200. The battery may be a rechargeable battery.

Detailed Description Text (23):

The circuit of FIG. 9 has the same construction as that of FIG. 8, except that a rechargeable battery 204a is used as the battery located in the keyboard 200 and a battery charger (or battery charging circuit) 206 is further included in the circuit of FIG. 8. Accordingly, description of components identical to those in FIG. 8 is omitted.

Detailed Description Text (24):

As shown in FIG. 9, when the keyboard 200 operates with a power source voltage  $V_{in}$  from the computer 100 by connecting the keyboard to the computer 100 through the cable 280, the rechargeable battery 204a is charged by means of a battery charger 206 receiving the voltage  $V_{in}$ . If the keyboard 200 does not operate with the power source voltage  $V_{in}$  from the computer 100, it operates with the battery voltage from the rechargeable battery 204a. If the power source voltage  $V_{in}$  from the computer 100 is supplied, however, the keyboard 200 operates with the voltage  $V_{in}$  and, at the same time, the battery 204a is charged.

US Reference Patent Number (3):

4754268

## CLAIMS:

4. The wire/wireless keyboard according to claim 1, wherein said battery means comprises a rechargeable battery, and the keyboard further comprises a battery charging circuit for charging the rechargeable battery using a power source voltage received from the computer system.

8. The wire/wireless keyboard according to claim 1, wherein said

battery means comprises a rechargeable battery and a battery charger connected thereto.

10. The computer system according to claim 9, wherein said data input device includes a rechargeable battery and a battery charger connected thereto.

15. The computer system according to claim 12, wherein said battery means comprises a rechargeable battery, and the first data input device further comprises a battery charging circuit for charging the rechargeable battery using a power source voltage from the computer system.

17. The computer system according to claim 12, wherein said battery means comprises a rechargeable battery and a battery charger connected thereto.

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L3: Entry 1 of 7

File: USPT

Oct 15, 2002

DOCUMENT-IDENTIFIER: US 6466154 B1

TITLE: Remote controller integrated with wireless mouse

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L3: Entry 4 of 7

File: USPT

May 1, 2001

DOCUMENT-IDENTIFIER: US 6225981 B1

TITLE: Wireless computer mouse



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L3: Entry 5 of 7

File: USPT

May 16, 2000

DOCUMENT-IDENTIFIER: US 6064702 A

TITLE: Four-stage phase demodulation low frequency wireless mouse  
device

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L3: Entry 6 of 7

File: USPT

Dec 29, 1998

DOCUMENT-IDENTIFIER: US 5854621 A

TITLE: Wireless mouse

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L3: Entry 7 of 7

File: USPT

Jun 28, 1988

DOCUMENT-IDENTIFIER: US 4754268 A

TITLE: Wireless mouse apparatus

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L10: Entry 2 of 2

File: USPT

Sep 16, 1997

DOCUMENT-IDENTIFIER: US 5668654 A

TITLE: Package for an infrared communications adapter

Other Reference Publication (2):Gimmick or Breakthrough, Wireless and rechargeable mouse Apr. 2, 1992 DAK industries.